

IN THE CLAIMS

Please amend claims 1, 9, 15, 19 and 25 as follows:

1 1. (Currently amended) Transmission system comprising a
2 transmitter with an encoder for encoding an audio signal, the
3 encoder comprises frequency determining means for determining a
4 frequency of at least one periodical component of the audio signal,
5 the transmitter further comprises transmitting means for
6 transmitting a signal representing said frequency to a receiver,
7 said receiver comprises receiving means for receiving a signal
8 representing said frequency from the transmitter, and a decoder for
9 deriving a reconstructed audio signal on the basis of said
10 frequency, wherein the encoder further comprises frequency change
11 determining means for determining a frequency change of said at
12 least one periodical component of the audio signal over a
13 predetermined amount of time to be used by said decoder for
14 deriving said reconstructed audio signal.

1 2. (Previously presented) Transmission system according to
2 claim 1, wherein the transmitting means are arranged for

3 transmitting a further signal representing said frequency change to
4 the receiver, the receiver is arranged for receiving said further
5 signal, and the decoder is arranged for deriving said reconstructed
6 audio signal also on basis of said frequency change.

1 3. (Previously presented) Transmission system according to
2 claim 1, wherein the encoder comprises means for determining a
3 fundamental frequency from the audio signal using said frequency
4 change.

1 4. (Previously presented) Transmission system according to
2 claim 1, wherein the encoder comprises time transforming means for
3 obtaining a time transformed audio signal, wherein the time
4 transforming means are arranged for time compressing the audio
5 signal during a first part of the predetermined amount of time and
6 for time expanding the audio signal during a second part of the
7 predetermined amount of time in such a way that the time
8 transformed audio signal has a smaller frequency change than the
9 audio signal.

1 5. (Previously presented) Transmission system according to
2 claim 1, wherein the frequency change determining means comprise
3 time transform determining means for deriving a plurality of time
4 transformed audio signals, each corresponding to a different time
5 transform, and wherein the time transform determining means
6 comprise selection means for selecting the time transform
7 corresponding to the time transformed audio signal having a
8 smallest frequency change over said predetermined amount of time.

C/ 1 6. (Previously presented) Transmission system according to
2 claim 5, wherein the time transform determining means are arranged
3 for selecting the time transformed audio signal having the smallest
4 frequency change over said predetermined amount of time by
5 selecting the time transformed audio signal having the highest peak
6 in its autocorrelation function.

1 7. (Previously presented) Transmission system according to
2 claim 4, wherein the time transform is defined by a quadratic
3 relation between the actual time and the transformed time.

1 8. (Previously presented) Transmission system according to
2 claim 7, wherein the relation between the actual time t and the
3 transformed time τ is defined by $\tau(t) = \frac{a}{T} \cdot t^2 + (1-a) \cdot t$; $0 \leq t \leq T$ in which
4 a is a parameter defining the time transform and T is the duration
5 of a signal segment.

C/ 1 9. (Currently amended) Transmitter with an encoder for encoding
2 an audio signal, the encoder comprises frequency determining means
3 for determining a frequency of at least one periodical component of
4 the audio signal, the transmitter further comprises transmitting
5 means for transmitting a signal representing said frequency,
6 wherein the encoder further comprises frequency change determining
7 means for determining a frequency change of said at least one
8 periodical component of the audio signal over a predetermined
9 amount of time to be used by a decoder for deriving said
10 reconstructed audio signal.

1 10. (Previously presented) Transmitter according to claim 9,
2 wherein the transmitting means are arranged for transmitting a
3 further signal representing said frequency change.

1 11. (Previously presented) Transmitter according to claim 9,
2 wherein the encoder comprises means for determining a fundamental
3 frequency from the audio signal under use of said change of said
4 fundamental frequency over a predetermined amount of time.

1 12. (Previously presented) Transmitter according to claim 9,
2 wherein the encoder comprises time transforming means for obtaining
3 a time transformed audio signal, wherein the time transforming
4 means are arranged for time compressing the audio signal during a
5 first part of the predetermined amount of time and for time
6 expanding the audio signal during a second part of the
7 predetermined amount of time in such a way that the time
8 transformed audio signal has a smaller frequency change than the
9 audio signal.

1 13. (Previously presented) Receiver comprising receiving means
2 for receiving an encoded audio signal representing an audio signal
3 by at least a frequency of at least one periodical component of the
4 audio signal, and a decoder for deriving a reconstructed audio
5 signal on the basis of said frequency, wherein the receiver is
6 arranged for receiving a further signal representing a frequency

7 change of said at least one periodical component of said audio
8 signal over a predetermined amount of time, and the decoder is
9 arranged for deriving said reconstructed audio signal also on the
10 basis of said frequency change.

1 14. (Previously presented) Receiver according to claim 13,
2 wherein the decoder comprises time transforming means for obtaining
3 the reconstructed audio signal by time transforming a decoded
4 signal wherein the time transforming means are arranged for time
5 expanding the decoded signal during a first part of the
6 predetermined amount of time and for time compressing the decoded
7 signal during a second part of the predetermined amount of time in
8 such a way that the time transformed decoded signal has a larger
9 frequency change than the decoded signal.

1 15. (Currently amended) Encoder for encoding an audio signal,
2 the encoder comprises means for determining a frequency of at least
3 one periodical component of the audio signal, and for deriving a
4 signal representing said frequency, wherein the encoder further
5 comprises frequency change determining means for determining a
6 signal representing a frequency change of said at least one

7 periodical component over a predetermined amount of time to be used
8 by a decoder for deriving said audio signal.

1 16. (Previously presented) Encoder according to claim 15,
2 wherein the encoder comprises time transforming means for obtaining
3 a time transformed audio signal, wherein the time transforming
4 means are arranged for time compressing the audio signal during a
5 first part of the predetermined amount of time and for time
6 expanding the audio signal during a second part of the
7 predetermined amount of time in such a way that the time
8 transformed audio signal has a smaller frequency change than the
9 audio signal.

1 17. (Previously presented) Decoder for deriving a
2 reconstructed audio signal from an encoded audio signal
3 representing said audio signal by at least a frequency of at least
4 one periodical component of the audio signal, and a decoder for
5 deriving a reconstructed audio signal on the basis of said
6 frequency, wherein the decoder is arranged for deriving said
7 reconstructed audio signal also on the basis of a further signal

8 representing a frequency change of said at least one periodical
9 component over a predetermined amount of time.

1 18. (Previously presented) Decoder according to claim 17,
2 wherein the decoder comprises time transforming means for obtaining
3 the reconstructed audio signal by time transforming a decoded
4 signal wherein the time transforming means are arranged for time
5 expanding the decoded signal during a first part of the
6 predetermined amount of time and for time compressing the decoded
7 signal during a second part of the predetermined amount of time in
8 such a way that the reconstructed audio signal has a larger
9 frequency change than the decoded signal.

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1 19. (Currently amended) Method for encoding an audio signal
2 comprising determining a frequency of at least one periodical
3 component, deriving a signal representing said frequency of at
4 least one periodical component of the audio signal, and determining
5 a signal representing a frequency change of said at least one
6 periodical component of the audio signal over a predetermined
7 amount of time to be used by a decoder for deriving said audio
8 signal.

1 20. (Previously presented) Method according to claim 19,
2 further comprising deriving a time transformed audio signal, and
3 time compressing the audio signal during a first part of the
4 predetermined amount of time and for time expanding the audio
5 signal during a second part of the predetermined amount of time in
6 such a way that the time transformed audio signal has a smaller
7 frequency change than the audio signal.

1 21. (Previously presented) Method for deriving a reconstructed
2 audio signal from an encoded audio signal representing said audio
3 signal by at least a frequency of at least one periodical component
4 of the audio signal, and a decoder for deriving a reconstructed
5 audio signal on basis of said frequency, wherein the method
6 comprises deriving said reconstructed audio signal also on basis of
7 a further signal representing a frequency change of said at least
8 one periodical component of the audio signal over a predetermined
9 amount of time.

1 22. (Previously presented) Method according to claim 21,
2 further comprising deriving the reconstructed audio signal by a
3 time transforming of a decoded signal wherein the time transforming

4 comprises time expanding the decoded signal during a first part of
5 the predetermined amount of time and for time compressing the
6 decoded signal during a second part of the predetermined amount of
7 time in such a way that the time transformed decoded signal has a
8 larger frequency change than the decoded signal.

1 23. (Previously presented) Storage medium carrying a computer
2 program for performing a method according to claim 19.

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1 24. (Previously presented) Signal carrying a computer program
2 for performing a method according to claim 19.

1 25. (Currently amended) Encoded audio signal representing said
2 audio signal by at least a frequency of at least one periodical
3 component of the audio signal, wherein the encoded audio signal
4 comprises a further signal component representing a frequency
5 change of said at least one periodical component over a
6 predetermined amount of time to be used by a decoder for deriving
7 said audio signal.

- 1 26.(original) Storage medium carrying an encoded audio signal
- 2 according to claim 23.

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